



Green Transformation of the Jwaneng Community through Integrated Wastewater Reclamation Using the Water-Energy-Food-Ecosystem Nexus Circular Economy Approach.

EU contribution: € 245.984.00 (Pula 3,812,752)

Period of implementation: from 15/06/2026 to 15/06/2029

Location: Jwaneng Community

Implementing organisation(s): Global Water Partnership Organization Botswana.

Project objectives and description: Transform wastewater challenges in Jwaneng into drivers of food security, inclusive & sustainable livelihoods and ecosystem restoration, demonstrating community-led green transformation through a WEFE Nexus circular economy approach.

Specific Objectives/outcomes:

1. To enhance food security and community livelihoods in Jwaneng by reusing treated wastewater (effluent) to sustainably irrigate 14 hectares of community-managed horticultural land
2. To generate 150-200 decent green jobs in horticulture and agro-processing, prioritizing women (at least 60%), youth and disadvantaged groups (30%), and men (10%), through wastewater reuse and circular economy solutions in Jwaneng.
3. To reduce environmental and public health risks for 18,784 residents from unmanaged effluent in Jwaneng by promoting safe, circular reuse of treated wastewater for ecosystem restoration, food production, and livelihood opportunities.
4. To partner with Debswana - Jwaneng Mine in developing at least 5 hectares of biodiversity-rich constructed wetlands that serve as ecological offsets while advancing climate resilience, ecosystem restoration, and generate sustainable eco-tourism and green livelihoods for local communities
5. To establish robust public-private partnerships that institutionalize the WEFE Nexus circular economy model in Jwaneng, ensuring long-term sustainability, investment mobilization, beyond donor funding.

Outputs / expected results:

- 1.1: Solar-powered wastewater reuse infrastructure (pumping, conveyance, storage) installed and operational
- 1.2: Community horticultural land (14 hectares) under productive cultivation using treated wastewater
- 2.1: Small agro-processing plant established and operational for value addition to horticultural products
- 2.2: "Jwaneng Green Label" products in local and regional markets
- 3.1: Constructed wetlands covering at least 5 hectares established in partnership with Debswana
- 3.2: Eco-tourism facilities and programs established
- 4.1: Capacity building programs delivered to 200 individuals (women, men, youth, disadvantaged groups)
- 4.2: Inclusion programs ensuring participation of women, youth, and disadvantaged groups
- 5.1: Public-private partnership agreements signed with Debswana, Woolworths, Cresta Hotel, and government agencies
- 5.2: Policy integration and sustainability planning completed

Incoming public / visibility events:

- N/A

Project website / Social media account links:

- N/A